

#### California High-Speed Train Alignments & Stations Screening Evaluation Summary

**Bay Area-to-Merced** 



Authority Board Meeting — San Jose August 1, 2001

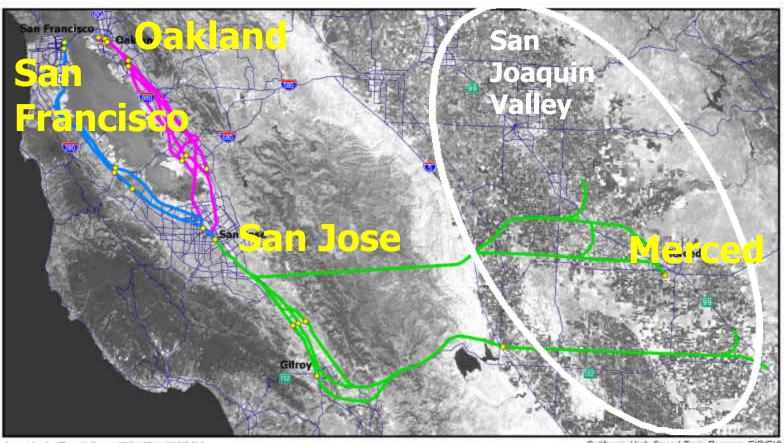


#### **Corridor Overview**



U.S. Department of Transportation

Federal Railroad Administration



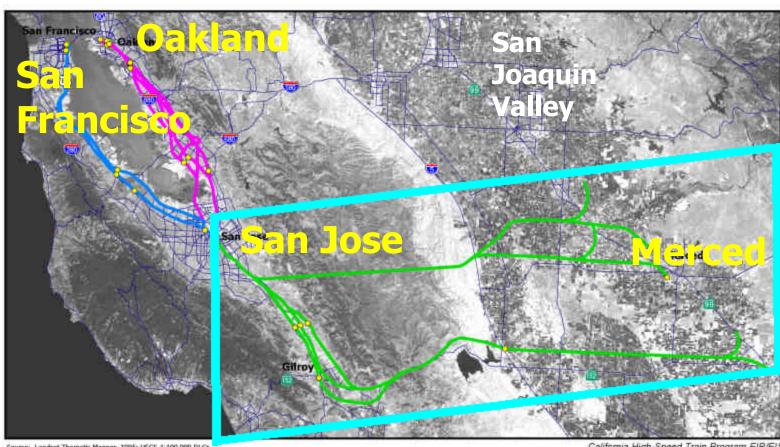
Source: Landsat Thematic Mapper, 1995; USGS 1:100,000 DLGs



## Merced-to-San Jose Segment





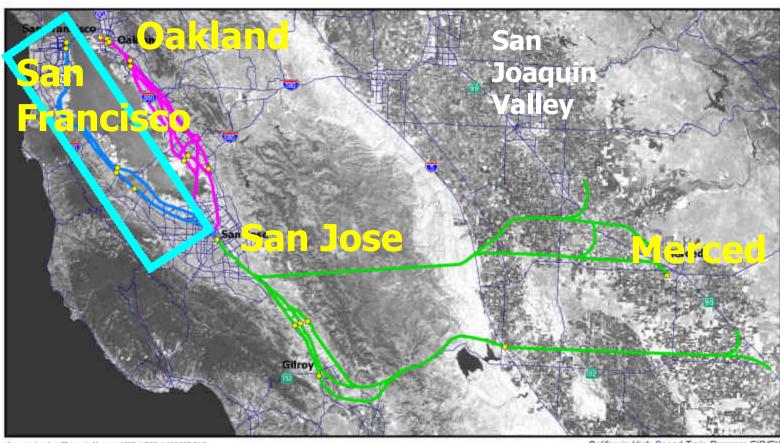


Source: Landset Thematic Mapper, 1995; USGS 1:100,000 DLGs





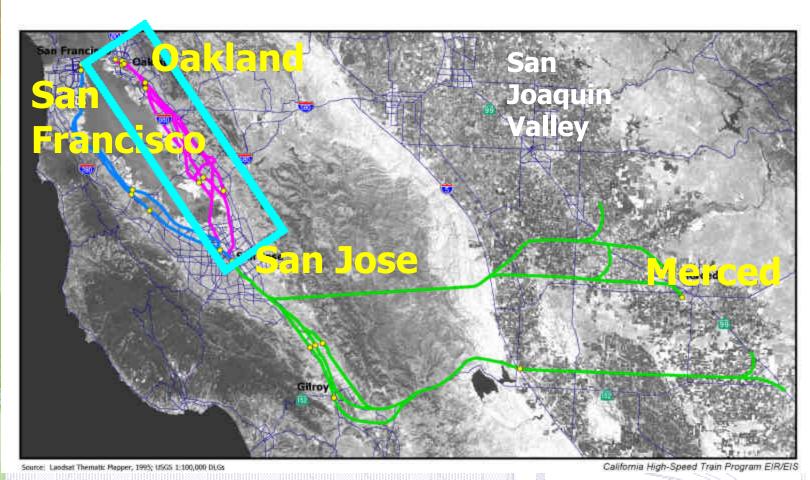
# San Jose-to-San Francisco Segment



Source: Landset Thematic Mapper, 1995; USGS 1:100,000 DLGs



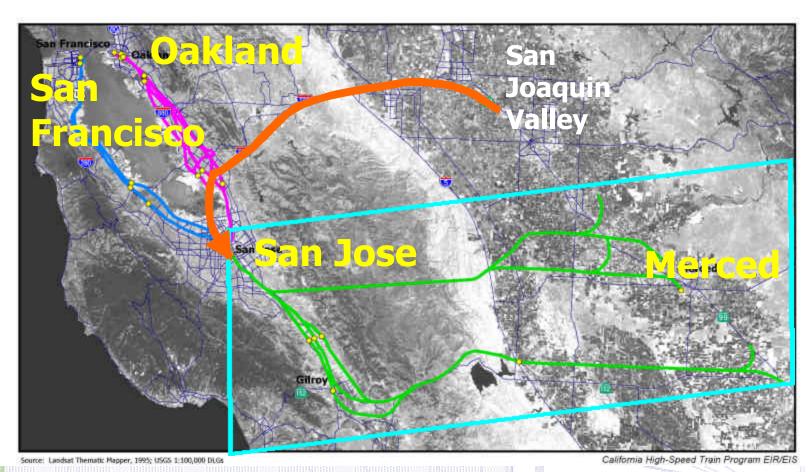








## Altamont Pass Option Withdrawn





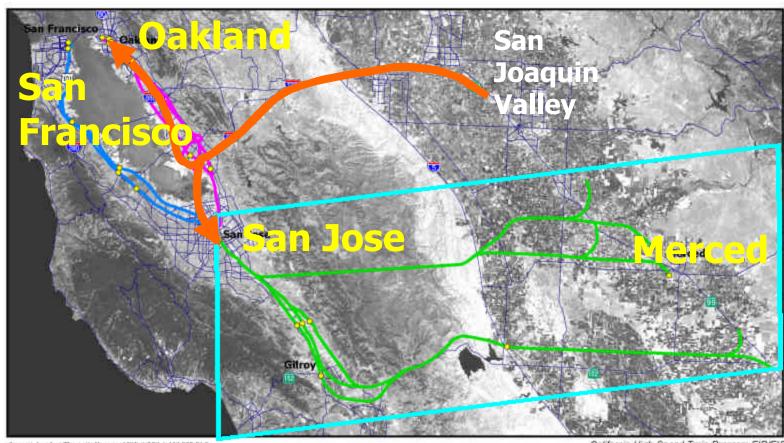
# Altamont Pass Option Withdrawn



U.S. Department of Transportation

Federal Railroad

Administration

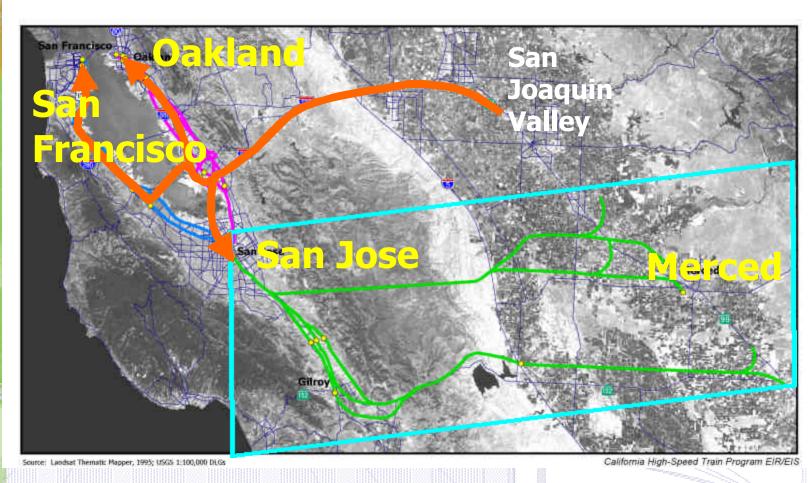


Source: Landset Thematic Mapper, 1995; USGS 1:100,000 DLGs





## **Altamont Pass Three Directions**

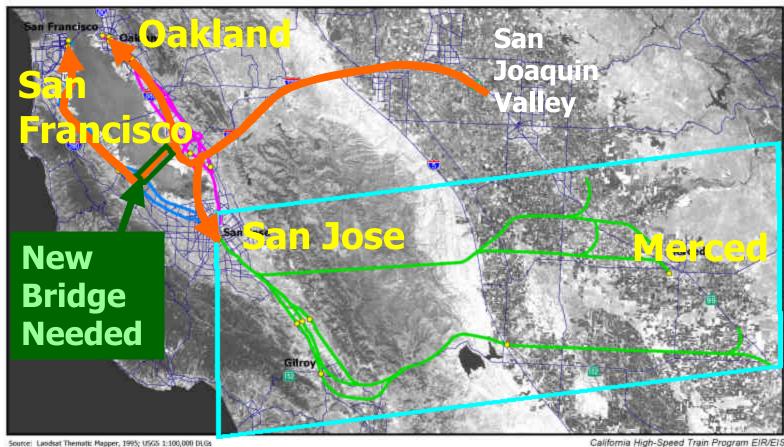








## **Altamont Pass New Bay Bridge**



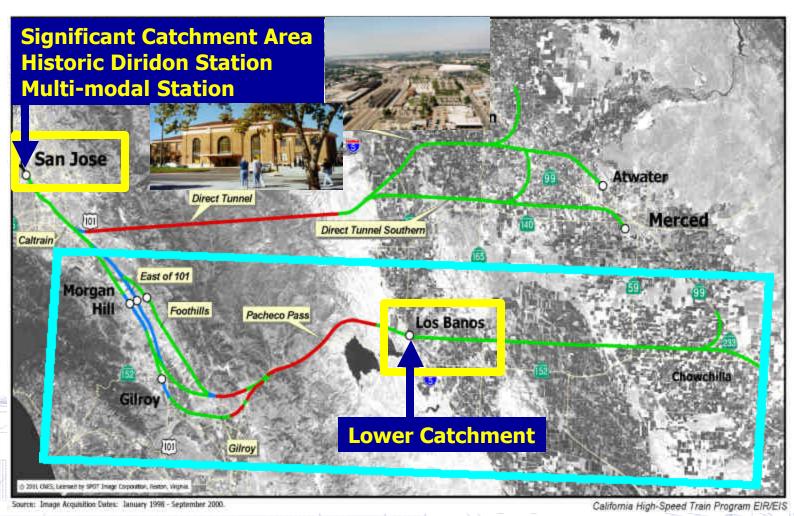
**Panoche Pass Option Further South Adds Major Cost & Reduces Ridership** 







#### **Pacheco Pass Alignments**

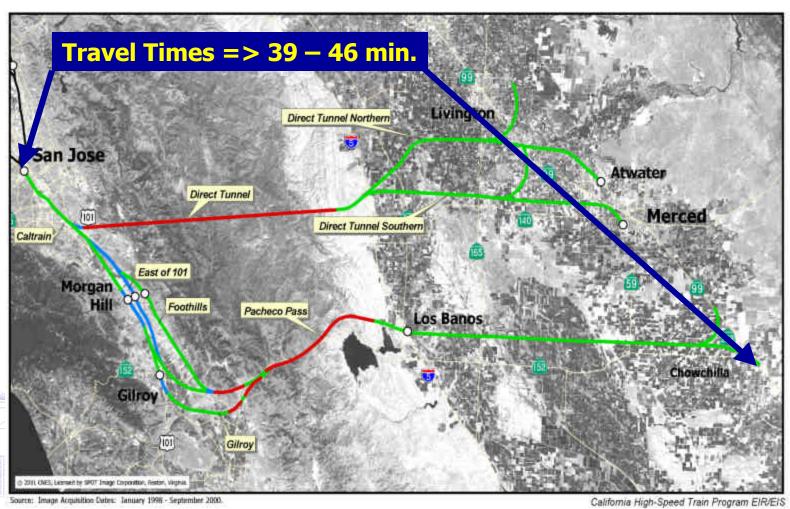








### **Pacheco Pass Alignments**

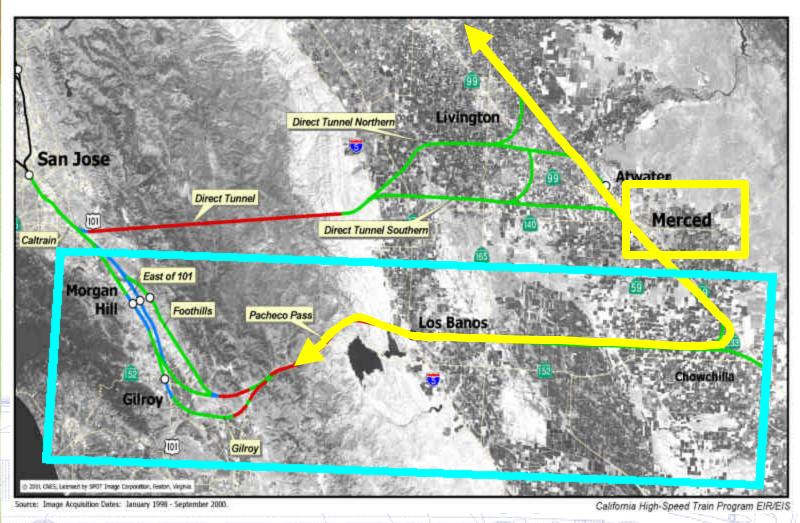








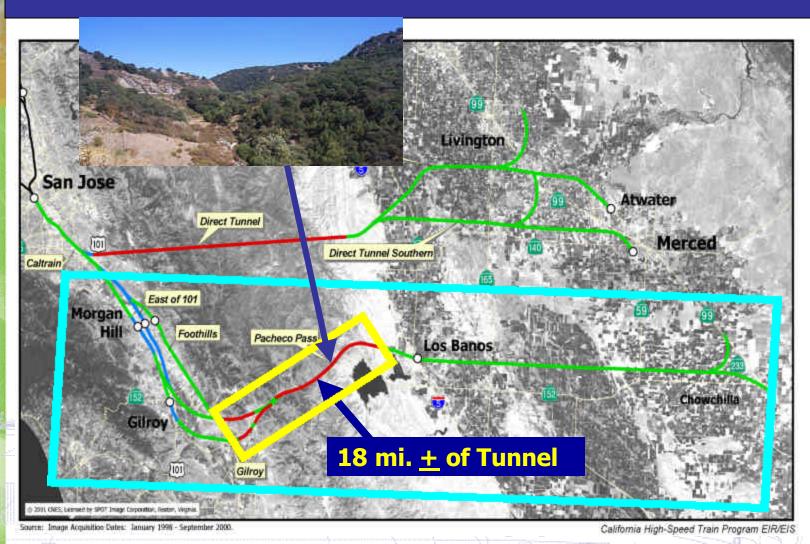
### Merced Area on Sacramentoto- San Jose Line







#### **Pacheco Pass Alignments**

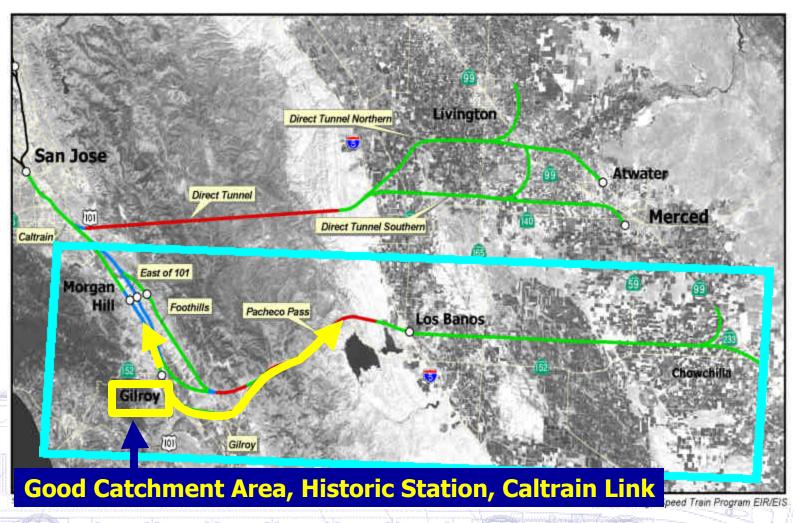




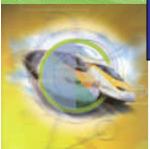




## Pacheco Pass/Gilroy/ Caltrain Alignment

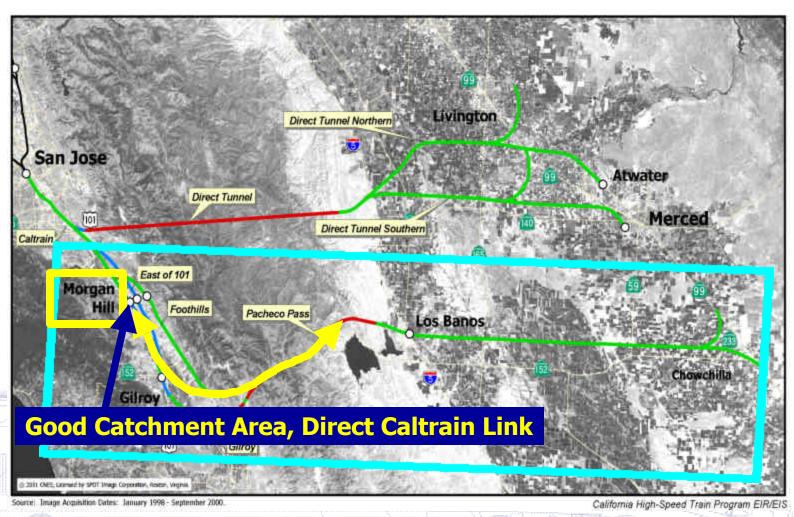








# Pacheco Pass/Morgan Hill/Caltrain

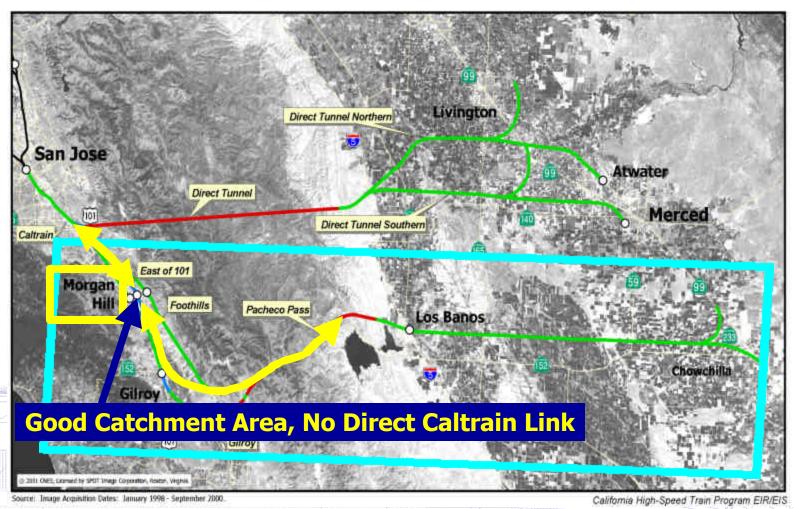








### Pacheco Pass/East of 101/ Caltrain

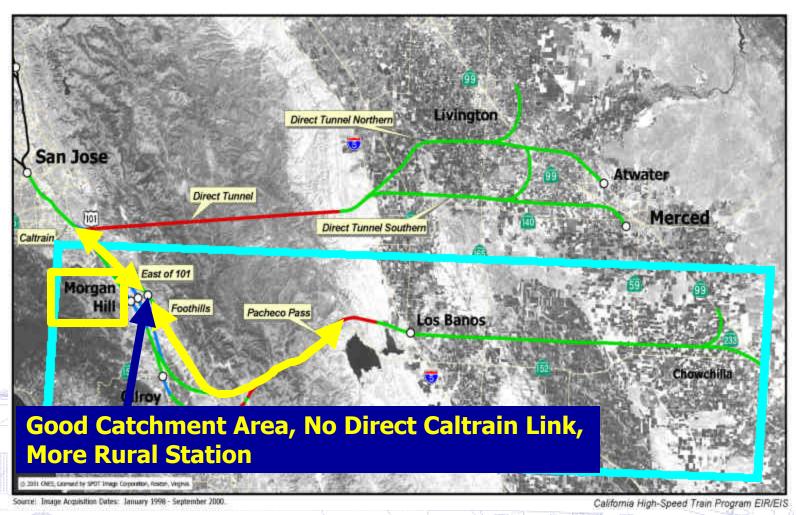








## Pacheco Pass/ Foothills/Caltrain

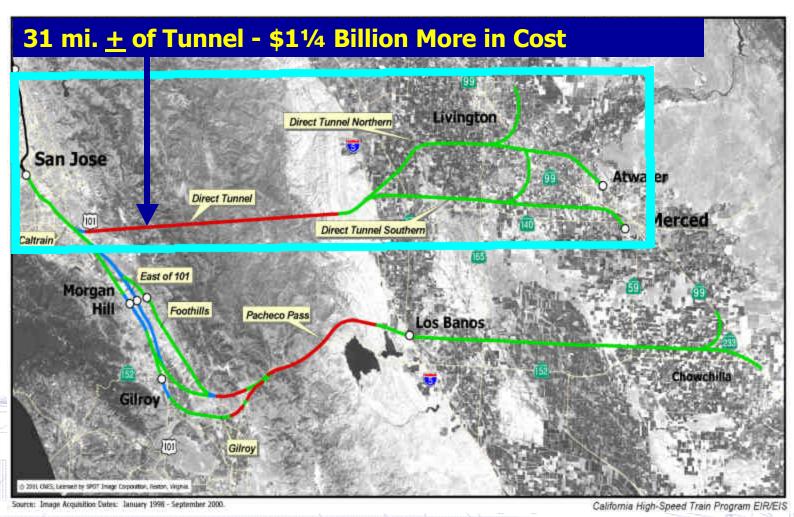








#### **Direct Tunnel Alignments**

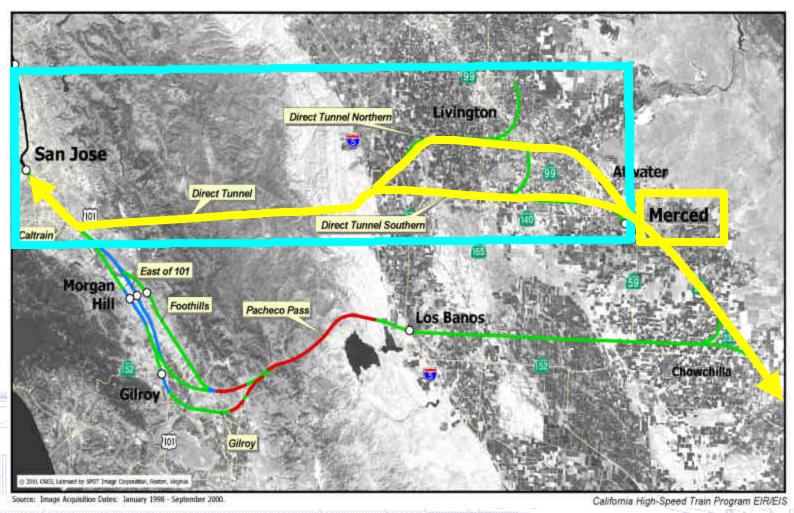






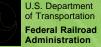


### Merced Area on Los Angelesto-San Jose Line

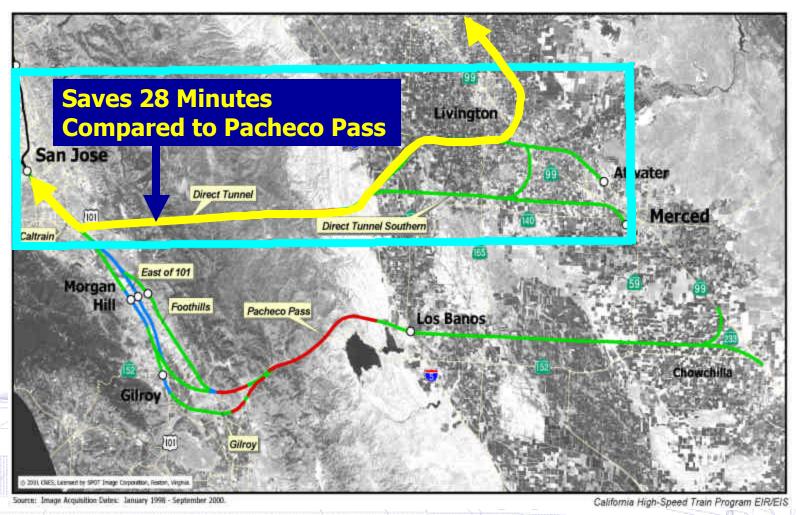








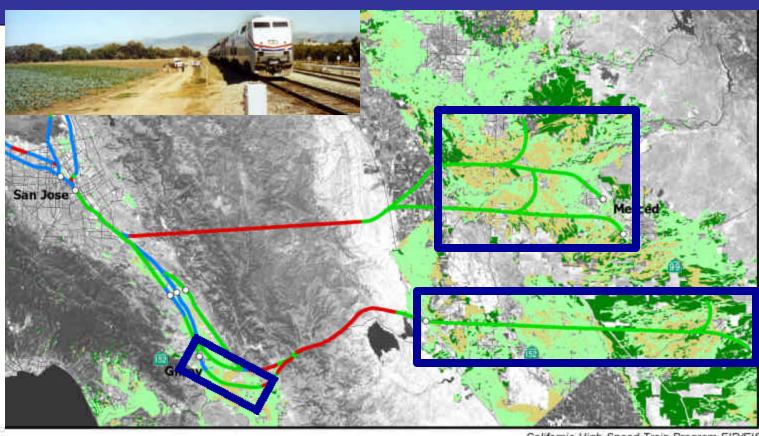
## Faster Service from Sacramento to San Jose





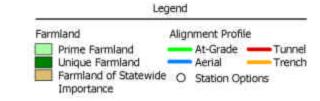


#### **Farmland Issues**



California High-Speed Train Program EIR/EIS

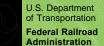
nal Resource Conservation Service



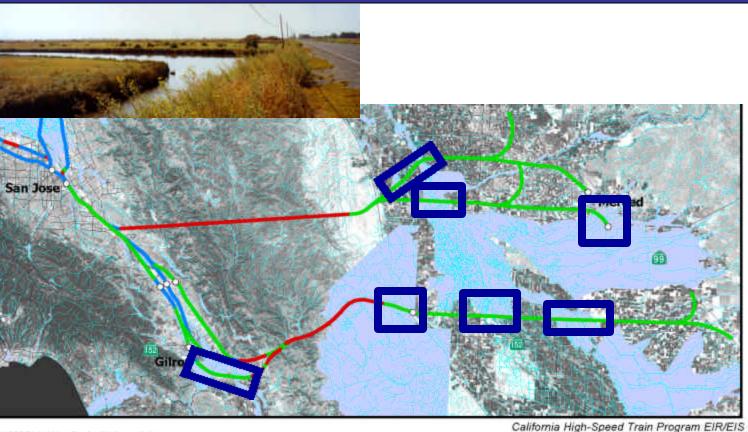
**Farmland Resources Bay Area to Merced Corridor** 



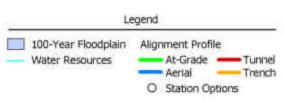




## Water Resource/Wetland/ Floodplain Issues



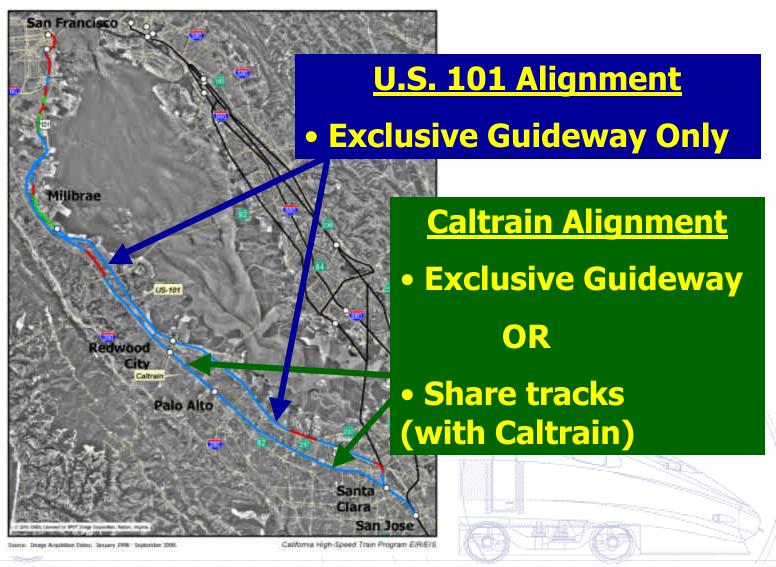
USGS Digital Line Graphs (Hydrography)



Water Resources and Floodplains Bay Area to Merced Corridor



## San Jose-to-San Francisco Segment





#### **Exclusive Guideway** U.S. 101 & Caltrain Corridors



San Francisco

#### In San Francisco (Both Alignments)

- Tunneling Issues
- Only One Station
  - 4<sup>th</sup> & King OR Transbay Terminal

#### **Both Alignments**

- Right-of-Way Issues/Costs
- Aerial Guideway Visual Effects
- Faster Train Speeds

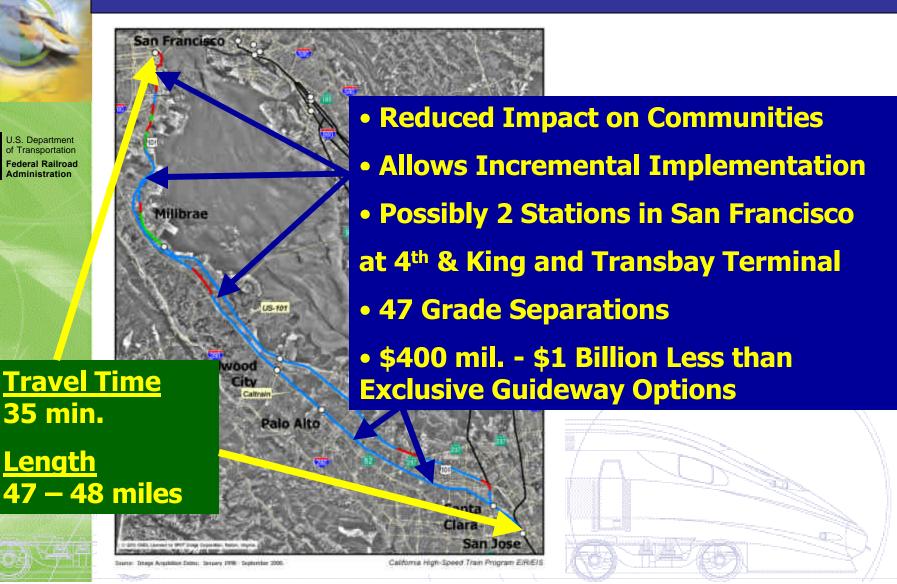
**Travel Times** 28 – 31 min.

47 – 48 miles

**Lengths** 

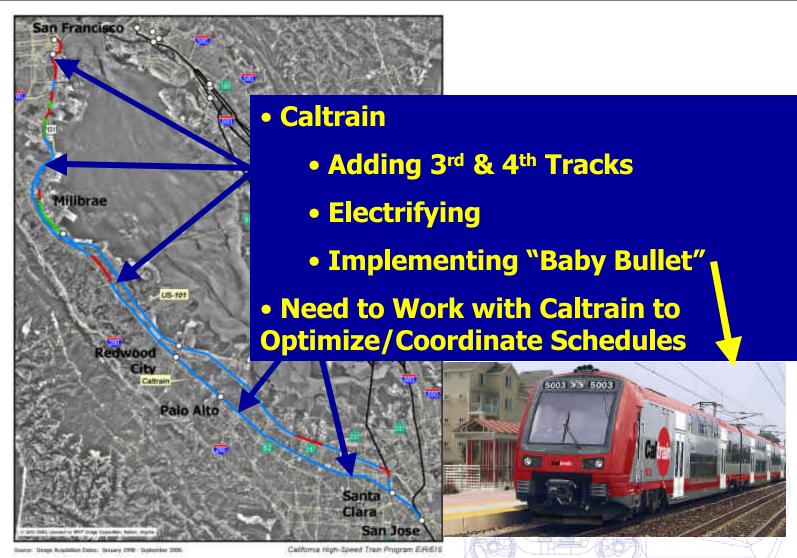
# U.S. Department of Transportation Federal Railroad Administration

#### **Shared Use of Caltrain Tracks**



# U.S. Department of Transportation Federal Railroad Administration

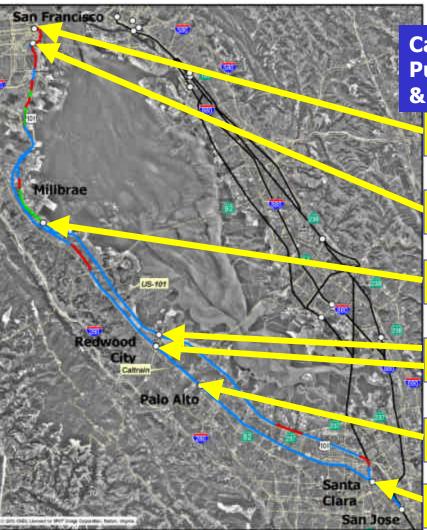
#### **Shared Use of Caltrain Tracks**







#### **Station Options**



Caltrain & City of San Francisco
Pursuing New Transbay Terminal
& Caltrain Downtown Extension

#### **Transbay Terminal**

And/Or

4th & King

MAJOR CATCHMENT AREA

SFO (Millbrae)

**Redwood City** 

Or

**Palo Alto** 

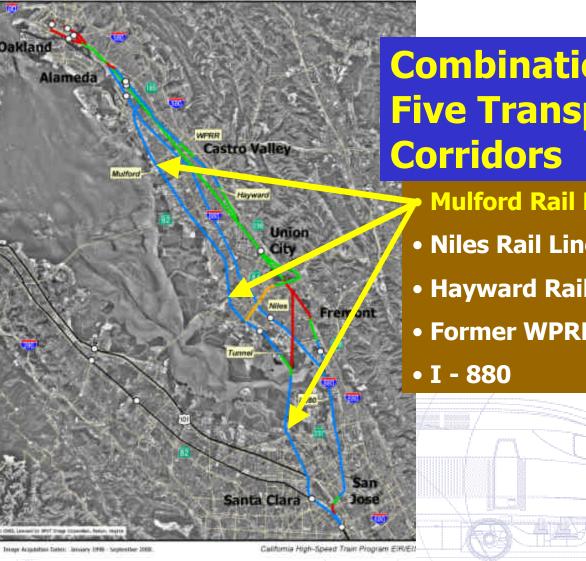
**Santa Clara (Optional)** 

Source: Strape Acquisition Colons: Sensory 1998: September 2006.









**Combinations of Five Transportation** 

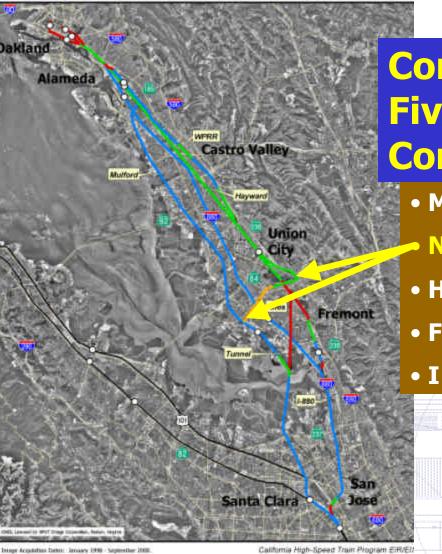
**Mulford Rail Line (UPRR)** 

- Niles Rail Line (UPRR)
- Hayward Rail Line (UPRR)
- Former WPRR Line (UPRR)







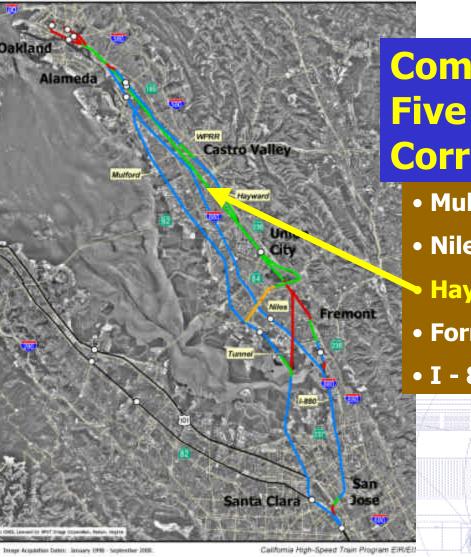


- Mulford Rail Line (UPRR)
- Niles Rail Line (UPRR)
- Hayward Rail Line (UPRR)
- Former WPRR Line (UPRR)
- I 880







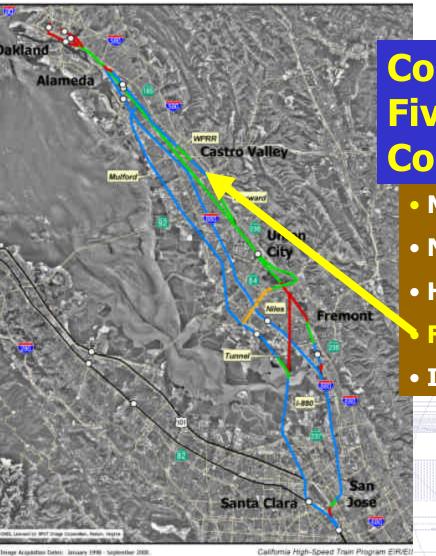


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- Former WPRR Line (UPRR)
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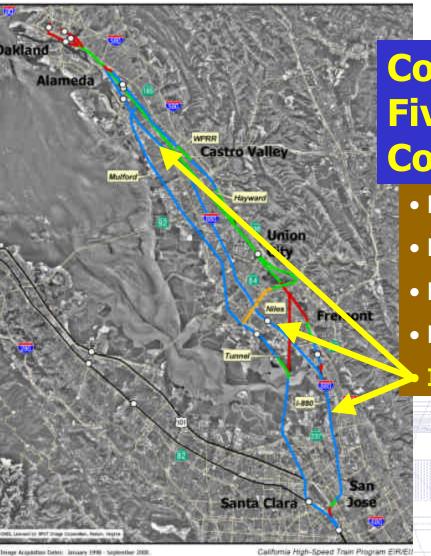


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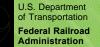


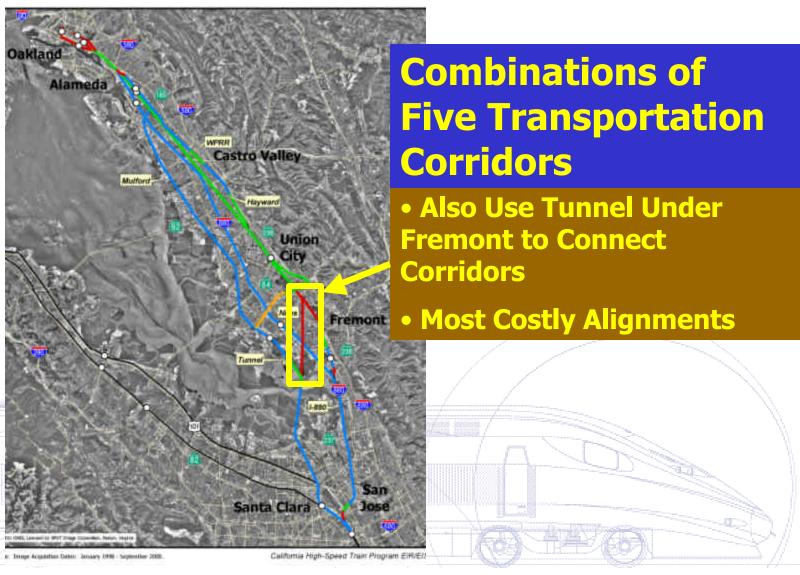


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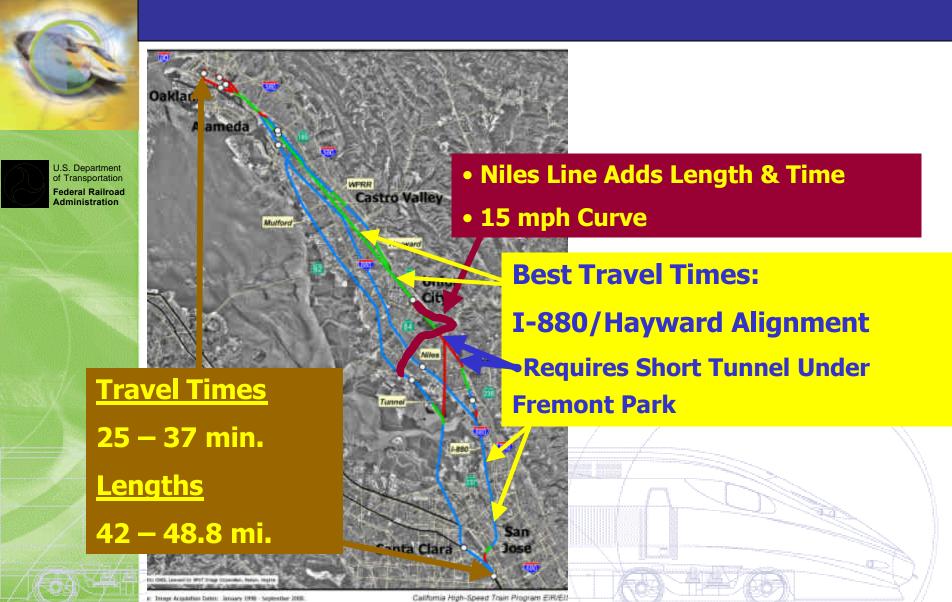












# U.S. Department of Transportation Federal Railroad Administration

#### **Station Options**



Santa Clara

California High-Speed Train Program EIR/EI:

Southern Alameda County

Multi-modal Options

**Multi-modal Options** 







## Wetlands / Wildlife Refuge / Floodplains / Natural Habitat



#### **Serving Major Markets** Bay Area Employment Density (2020) → Skinor Valley Proper Transact Correction CART DESTRUCTOR Warn Cight Rail VTA Light Stat ~ Cutten Internsty A sel U.S. Department of Transportation Federal Railroad Administration Bay Area Population Density (2020) Stices Valley Raped Trained Enmiter BART BART SECTION fariales annehication) BART Station Muni Light Roll VTA Light Rail ~ Cation ACE leterally fi all Francisco per Acre 0-5 5-10 10-20 20-10 30-50 25 - 100 the Year